



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/686,934
Applicant : Bao et al.
Filed : October 15, 2003
Title : Waferless Fiber Fabry-Perot Filters
Confirmation No. 4564

TC/A.U. : 2874
Examiner : Palmer, Phan TH
Docket No. : 113-02

<p align="center">CERTIFICATE OF MAILING</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as Express Mail in an envelope addressed to: Mail Stop Issue Fee, Hon. Commissioner for Patents, PO Box 1450, Alexandria VA 22313-1450 EV 584 577 142 US</p> <p>13 Dec 04 <i>Kay Speaker</i> Date Kay Speaker</p>
--

**REQUEST FOR EXAMINER'S INITIALS
ON PATENT AND TRADEMARK OFFICE FORM 1449**

Hon. Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants respectfully request that the Examiner initial the entries corresponding to all references cited in the Information Disclosure Statements filed with the U.S. Patent and Trademark Office on July 8, 2004. For the Examiner's convenience copies of the relevant PTO 1149 forms and electronic submission materials are provided with this request.

Applicants submitted the Information Disclosure Statements on July 8, 2004, electronically and via Express Mail complying with all the requirements of 37 C. F.R. Section 1.10. A copy of the receipt post card indicating receipt and entry of all the materials submitted via Express Mail to the U.S. Patent and Trademark Office on July 8, 2004 is provided with this request. In addition, a print out generated on December 10, 2004 using the Patent Application Information Retrieval System is provided showing receipt of the materials



submitted via Express Mail and electronically to the U.S. Patent and Trademark Office on July 8, 2004 is also provided with this request.

As these materials were provided more than two months prior to the Notice Of Allowance of September 13, 2004, Applicants respectfully request that the Examiner initial all the entries and return to the Applicants copies showing the Examiner's initials.

It is believed that no fee is due with this submission. If this is incorrect, please deduct any required fee from deposit account 07-1969.

Respectfully submitted,

Stephen B. Barone
Reg. No. 53,968
Customer Number 23713

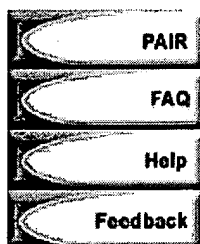
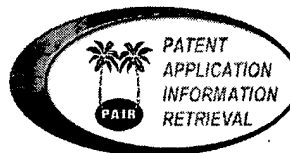
GREENLEE, WINNER and SULLIVAN, P.C.
4875 Pearl East Circle, Suite 200
Boulder, CO 80301
Phone: (303) 499-8080
Fax: (303) 499-8089



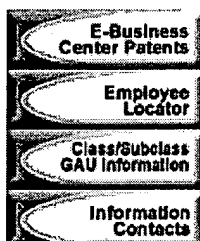
United States Patent and Trademark Office

[Home](#) | [Site Index](#) | [Search](#) | [FAQ](#) | [Glossary](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)

PATENT APPLICATION INFORMATION RETRIEVAL



Other Links



Printer Friendly Version

Search results as of: 12-10-2004::16:35:30 E.T.

Search results for application number:10/686,934			
Application Number:	10/686,934	Customer Number:	23713
Filing or 371(c) Date:	10-15-2003	Status:	Notice of Allowance Mailed -- Application Received in Office of Publications
Application Type:	Utility	Status Date:	09-24-2004
Examiner Name:	PALMER, PHANT H	Location:	ELECTRONIC
Group Art Unit:	2874	Location Date:	-
Confirmation Number:	4564	Earliest Publication No:	US 2004-0247244 A1
Attorney Docket Number:	113-02	Earliest Publication Date:	12-09-2004
Class/ Sub-Class:	385/039	Patent Number:	-
First Named Inventor:	Yufei Bao, Norcross, GA	Issue Date of Patent:	-
Title Of Invention:	WAFERLESS FIBER FABRY-PEROT FILTERS		

Select Search Option

☒ Assignments
☐ Continuity Data
☐ Display References
☐ Image File Wrapper
☐ Patent Term Adjustment History
☐ Publication Review

File History	
Date	Contents Description
12-08-2004	Workflow - Query Request - Finish
11-29-2004	Miscellaneous Communication to Applicant - No Action Count
10-21-2004	Workflow - Query Request - Begin
09-24-2004	Receipt into Pubs
09-23-2004	Workflow - File Sent to Contractor
09-13-2004	Mail Notice of Allowance
09-10-2004	Issue Revision Completed
09-10-2004	Notice of Allowance Data Verification Completed
09-01-2004	Receipt of all Acknowledgement Letters
09-01-2004	Receipt of Acknowledgment Letter
07-08-2004	Information Disclosure Statement (IDS) Filed
07-08-2004	Electronic Information Disclosure Statement
06-01-2004	Notice of Allowability

04-30-2004	IFW TSS Processing by Tech Center Complete
04-30-2004	Case Docketed to Examiner in GAU
03-23-2004	Application Return from OIPE
03-23-2004	Application Return TO OIPE
03-23-2004	Application Dispatched from OIPE
03-23-2004	Application Is Now Complete
01-30-2004	Payment of additional filing fee/Preexam
01-30-2004	A statement by one or more inventors satisfying the requirement under 35.115, Oath of the Applic
01-16-2004	Notice Mailed--Application Incomplete--Filing Date Assigned
01-14-2004	Agency Referral Letter Mailed
01-14-2004	Referred by L&R for Third-Level Security Review. Agency Referral Letter Generated
01-09-2004	Referred to Level 2 (LARS) by OIPE CSR
12-03-2003	IFW Scan & PACR Auto Security Review
10-15-2003	Initial Exam Team nn

[|.HOME|](#)[INDEX|](#)[SEARCH|](#)[eBUSINESS|](#)[CONTACT US|](#)[PRIVACY STATEMENT](#)

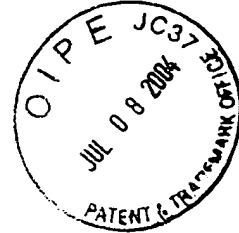
USPTO acknowledges receipt of the following:

IDS Transmittal

PTO Form 1449

82 References

U.S.S.N. Application 10/742,599



3 pgs.

10 pgs

42 pgs

SBB:nk 07/08/04

U.S.S.N. 10/686,934 filed October 15, 2003

Atty Docket No. 113-02

ENTD JUL 16 2004

JUL 16 2004



EV456657757US

**UNITED STATES PATENT AND TRADEMARK OFFICE
ACKNOWLEDGEMENT RECEIPT**

Electronic Version 1.1

Stylesheet Version v1.1.1

**Title of
Invention**

Waferless fiber fabry-perot filters

Submission Type: Information Disclosure Statement

Application Number: 10/686934

10/686934

EFS ID: 64227

Server Response:

Confirmation Code	Message
ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application
ICON1	4564
USPTOEFSNotice	For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number: 1(866) 217-9197 Website: http://www.uspto.gov/ebc/

First Named Applicant: Yufei Bao

Attorney Docket Number: 113-02

Timestamp: 2004-07-08 18:16:40 EDT

From: us

File Listing:

Doc. Name	File Name	Size (Bytes)
us-ids	113-02ids1-usidst.xml	8498
us-ids	us-ids.dtd	7763
us-ids	us-ids.xsl	12026
package-data	113-02ids1-pkda.xml	1951
package-data	package-data.dtd	27025
package-data	us-package-data.xsl	19263
Total files size		76526

Message Digest: c1d7942a4536cc5b031ff78d3c832b1332218a84

Digital Certificate Holder Name: cn=Steven John Penner,ou=Registered Attorneys,ou=Patent and Trademark Office,ou=Department of Commerce,o=U.S.

Government,c=US

TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0

Title of Invention	Waferless fiber fabry-perot filters	
Application Number: 10/686934 *10/686934*		
Date: 2004-07-08		
First Named Applicant: Yufei Bao		
Confirmation Number: 4564		
Attorney Docket Number: 113-02		
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>		
Submitted by:	Elec. Sign.	Sign. Capacity
Steven John Penner Registered Number: 54,371	/stevenjpenner/	Attorney

Documents being submitted

us-ids

Files

113-02ids1-usidst.xml

us-ids.dtd

us-ids.xsl

Comments

It is believed that no fee is due with this submission. If this is incorrect or for all purposes in this matter, please charge any required fee or credit any overpayment to Deposit Account 07-1969.

ELECTRONIC INFORMATION DISCLOSURE STATEMENT
--

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Waferless fiber fabry-perot filters
-------------------------------	--

Application Number: 10/686934

10/686934

Confirmation Number: 4564

First Named Applicant: Yufei Bao

Attorney Docket Number: 113-02

Search string: (6115122 or 6044189 or 5896193 or 5892582 or 5838437 or 5591965 or 5563973 or 5513913 or 5509093 or 5426297 or 5425039 or 5422970 or 5410404 or 5401956 or 5397891 or 5380995 or 5375181 or 5289552 or 5212746 or 5212745 or 4996419 or 4806012 or 5615224 or 5682237 or 5694503 or 5841920 or 5732169 or 4848499 or 4892388 or 4923273 or 5062684 or 5073004 or 5115441 or 5181213 or 5301201 or 5305336 or 5397739 or 5422470 or 5530715 or 5666373 or 5042898 or 5361130 or 5227857 or 6241397 or 6137812 or 5237630 or 5146527 or 5007705 or 5367589 or 5469520).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	6115122	2000-09-05	Bao			
	2	6044189	2000-03-28	Miller			
	3	5896193	1999-04-20	Colbourne			
	4	5892582	1999-04-06	Bao			
	5	5838437	1998-11-17	Miller			
	6	5591965	1997-07-01	Udd			
	7	5563973	1996-10-08	Miller			
	8	5513913	1996-05-07	Ball			
	9	5509093	1996-04-16	Miller			
	10	5426297	1995-06-20	Dunphy			
	11	5425039	1995-06-13	Hsu			
	12	5422970	1995-06-06	Miller			

13	5410404	1995-04-25	Kersey
14	5401956	1995-03-28	Dunphy
15	5397891	1995-03-14	Udd
16	5380995	1995-01-10	Udd
17	5375181	1994-12-20	Miller
18	5289552	1994-02-22	Miller
19	5212746	1993-05-18	Miller
20	5212745	1993-05-18	Miller
21	4996419	1991-02-26	Morey
22	4806012	1989-02-21	Meltz
23	5615224	1997-03-25	Cohen
24	5682237	1997-10-28	Belk
25	5694503	1997-12-02	Fleming
26	5841920	1998-11-24	Lemaire
27	5732169	1998-03-24	Riant
28	4848499	1989-07-18	Martinet
29	4892388	1990-01-09	Taylor
30	4923273	1990-05-08	Taylor
31	5062684	1991-11-05	Clayton
32	5073004	1991-12-17	Clayton
33	5115441	1992-05-19	Kopf
34	5181213	1993-01-19	Shinokura
35	5301201	1994-04-05	Dutta
36	5305336	1994-04-19	Adar
37	5397739	1995-03-14	Chalmers
38	5422470	1995-06-06	Kubo
39	5530715	1996-06-25	Shieh
40	5666373	1997-09-09	Sharp
41	5042898	1991-08-27	Morey
42	5361130	1994-11-01	Kersey
43	5227857	1993-07-13	Kersey
44	6241397	2001-06-05	Bao
45	6137812	2000-10-24	Hsu
46	5237630	1993-08-17	Hogg
47	5146527	1992-09-08	Mallinson
48	5007705	1991-04-16	Morey

	49	5367589	1994-11-22	MacDonald
	50	5469520	1995-11-21	Morey

Signature

Examiner Name	Date

**UNITED STATES PATENT AND TRADEMARK OFFICE
ACKNOWLEDGEMENT RECEIPT**

Electronic Version 1.1

Stylesheet Version v1.1.1

2 of 3

**Title of
Invention**

Waferless fiber fabry-perot filters

Submission Type: Information Disclosure Statement

Application Number: 10/686934

10/686934

EFS ID: 64228

Server Response:

Confirmation Code	Message
ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application
ICON1	4564
USPTOEFSNotice	For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number:1(866) 217-9197 Website: http://www.uspto.gov/ebc/

First Named Applicant: Yufei Bao

Attorney Docket Number: 113-02

Timestamp: 2004-07-08 18:27:04 EDT

From: us

File Listing:

Doc. Name	File Name	Size (Bytes)
us-ids	113-02ids2-usidst.xml	8871
us-ids	us-ids.dtd	7763
us-ids	us-ids.xsl	12026
package-data	113-02ids2-pkda.xml	2011
package-data	package-data.dtd	27025
package-data	us-package-data.xsl	19263
Total files size		76959

Message Digest: ae491b1fdf51759479e4811f7b824bd6ea18a193

Digital Certificate Holder Name: cn=Steven John Penner,ou=Registered Attorneys,ou=Patent and Trademark Office,ou=Department of Commerce,o=U.S.

Government,c=US

TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0

Title of Invention	Waferless fiber fabry-perot filters	
Application Number: 10/686934 *10/686934*		
Date: 2004-07-08		
First Named Applicant: Yufei Bao		
Confirmation Number: 4564		
Attorney Docket Number: 113-02		
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>		
Submitted by:	Elec. Sign.	Sign. Capacity
Steven John Penner Registered Number: 54,371	/stevenjpenner/	Attorney

Documents being submitted

us-ids

Files

113-02ids2-usidst.xml

us-ids.dtd

us-ids.xsl

Comments

It is believed that no fee is due with this submission. If this is incorrect or for all purposes in this matter, please charge any required fee or credit any overpayment to Deposit Account 07-1969.

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

Waferless fiber fabry-perot filters

Application Number: 10/686934

10/686934

Confirmation Number: 4564

First Named Applicant: Yufei Bao

Attorney Docket Number: 113-02

Search string: (5602949 or 5978539 or 5991483 or 5999671 or 6181851 or 6229827 or 6240220 or 6327036 or 4955025 or 4782491 or 4780877 or 4680767 or 5208886 or 4545644 or 4358851 or 4813756 or 4861136 or 4830451 or 4932033 or 5037179 or 4787701 or 4629284 or 4490007 or 4448482 or 4258977 or 5251275 or 5469455 or 5588013 or 5381426 or 5959753 or 6163553 or 5132976 or 5504771 or 6160627 or 5734667 or 5381230 or 5617434 or 4530097 or 5619368 or H0001813 or RE035962 or 4982406 or 5243610 or 5365539 or 5914978 or 5946438 or 5878065).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	5602949	1997-02-11	Epworth			
	2	5978539	1999-11-02	Davies			
	3	5991483	1999-11-23	Engelberth			
	4	5999671	1999-12-07	Jin			
	5	6181851	2001-01-30	Pan			
	6	6229827	2001-05-08	Fernald			
	7	6240220	2001-05-29	Pan			
	8	6327036	2001-12-04	Bao			
	9	4955025	1990-09-04	Mears			
	10	4782491	1988-11-01	Snitzer			
	11	4780877	1988-10-25	Snitzer			
	12	4680767	1987-07-14	Hakimi			

13	5208886	1993-05-04	Clayton
14	4545644	1985-10-08	DeVeau, Jr.
15	4358851	1982-11-09	Scifres
16	4813756	1989-03-21	Frenkel
17	4861136	1989-08-29	Stone
18	4830451	1989-05-16	Stone
19	4932033	1990-06-05	Miyazawa
20	5037179	1991-08-06	Bertolin
21	4787701	1988-11-29	Stenger
22	4629284	1986-12-16	Malavieille
23	4490007	1984-12-25	Murata
24	4448482	1984-05-15	Lathlaen
25	4258977	1981-03-31	Lukas
26	5251275	1993-10-05	Kuriyama
27	5469455	1995-11-21	Reitz
28	5588013	1996-12-24	Reitz
29	5381426	1995-01-10	Fontana
30	5959753	1999-09-28	Duling
31	6163553	2000-12-19	Pfeiffer
32	5132976	1992-07-21	Chung
33	5504771	1996-04-02	Vahala
34	6160627	2000-12-12	Ahn
35	5734667	1998-03-31	Esman
36	5381230	1995-01-10	Blanke
37	5617434	1997-04-01	Tamura
38	4530097	1985-07-16	Stokes
39	5619368	1997-04-08	Swanson
40	H0001813	1999-11-02	Kersey
41	RE035962	1998-11-17	Ball
42	4982406	1991-01-01	Facklam
43	5243610	1993-09-07	Murata
44	5365539	1994-11-15	Mooradian
45	5914978	1999-06-22	Welch
46	5946438	1999-08-01	Minot
47	5878065	1999-03-02	Delavaux

Signature

Examiner Name	Date

File 3 of 3

UNITED STATES PATENT AND TRADEMARK OFFICE
ACKNOWLEDGEMENT RECEIPT

Electronic Version 1.1

Stylesheet Version v1.1.1

Title of
Invention

Waferless fiber fabry-perot filters

Submission Type: Information Disclosure Statement

Application Number: 10/686934

10/686934

EFS ID: 64229

Server Response:

Confirmation Code	Message
ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application
ICON1	4564
USPTOEFSNotice	For assistance with e-filing a patent application, contact the Patent Electronic Business Center: Toll-Free Number: 1(866) 217-9197 Website: http://www.uspto.gov/ebc/

First Named Applicant: Yufei Bao

Attorney Docket Number: 113-02

Timestamp: 2004-07-08 18:38:08 EDT

From: us

File Listing:

Doc. Name	File Name	Size (Bytes)
us-ids	113-02ids3-usidst.xml	2920
us-ids	us-ids.dtd	7763
us-ids	us-ids.xsl	12026
package-data	113-02ids3-pkda.xml	1981
package-data	package-data.dtd	27025
package-data	us-package-data.xsl	19263
Total files size		70978

Message Digest: 4ae798773ab9c6382d46c6562cafa41007363552

Digital Certificate Holder Name: cn=Steven John Penner,ou=Registered Attorneys,ou=Patent and Trademark Office,ou=Department of Commerce,o=U.S.

Government,c=US

TRANSMITTAL

Electronic Version v1.1

Stylesheet Version v1.1.0

Title of Invention	Waferless fiber fabry-perot filters	
Application Number: 10/686934 *10/686934*		
Date: 2004-07-08		
First Named Applicant: Yufei Bao		
Confirmation Number: 4564		
Attorney Docket Number: 113-02		
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>		
Submitted by:	Elec. Sign.	Sign. Capacity
Steven John Penner Registered Number: 54,371	/stevenjpenner/	Attorney

Documents being submitted

us-ids

Files

113-02ids3-usidst.xml

us-ids.dtd

us-ids.xsl

Comments

It is believed that no fee is due with this submission. If this is incorrect or for all purposes in this matter, please charge any required fee or credit any overpayment to Deposit Account 07-1969.

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

**Title of
Invention**

Waferless fiber fabry-perot filters

Application Number: 10/686934

10/686934

Confirmation Number: 4564

First Named Applicant: Yufei Bao

Attorney Docket Number: 113-02

Search string: (5703978 or 5721802 or 6529661 or 6671432 or 5381500 or
5159655 or 5179608 or 5650856 or 5050949 or 6263002 or
6449047 or 6504616 or 20030076505).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	5703978	1997-12-30	DiGiovanni			
	2	5721802	1998-02-24	Francis			
	3	6529661	2003-03-04	Kropp			
	4	6671432	2003-12-30	Imada			
	5	5381500	1995-01-10	Edwards			
	6	5159655	1992-10-27	Ziebol			
	7	5179608	1993-01-12	Ziebol			
	8	5650856	1997-07-22	Morse			
	9	5050949	1991-09-24	DiGiovanni			
	10	6263002	2001-07-17	Hsu			
	11	6449047	2002-09-10	Bao			
	12	6504616	2003-01-07	Haber			

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass

	1	20030076505	2003-04-24	Bao
--	---	-------------	------------	-----

Signature

Examiner Name	Date

Form PTO-1449		
ATTY DOCKET NO.: 113-02	SERIAL NO.: 10/686,934	FILING DATE: October 15, 2003
APPLICANT: Bao et al.		GROUP: 2828

U.S. PATENT DOCUMENTS

Exmr. Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
		6,449,047	09/10/02	Bao et al.	356	478	11/12/99
		6,445,838	09/03/02	Caracci et al.	385	14	09/29/00
		6,137,812	10/24/00	Hsu et al.	372	6	02/25/97
		6,113,469	09/05/00	Yoshikawa et al.	451	41	04/21/99
		6,097,530	08/01/00	Asher et al.	359	288	03/10/99
		5,887,099	03/23/99	Csipkes et al.	385	56	10/03/97
		5,796,894	08/18/98	Csipkes et al.	385	56	11/21/96
		5,739,945	04/14/98	Tayebati	359	291	09/27/96
		5,425,039	06/13/95	Hsu et al.	372	6	02/24/94
		5,375,181	12/20/94	Miller et al.	385	27	10/13/93
		5,359,687	10/25/94	McFarland et al.	385	49	08/23/93
		5,283,845	02/01/94	Ip	385	24	07/20/92
		5,251,275	10/05/93	Kuriyama et al.	385	14	05/08/92
		5,037,180	08/06/91	Stone	385	123	07/19/90
		5,037,176	08/06/91	Roberts et al.	385	16	01/19/90
		5,027,435	06/25/91	Chraplyvy et al.	455	617	01/27/89
		5,024,505	06/18/91	Junji et al.	350	96.22	02/05/90
		4,861,136	08/29/89	Stone et al.	350	96.3	07/15/87
		4,830,451	05/16/89	Stone	350	96.15	03/05/86
		4,482,248	11/13/84	Papuchon et al.	356	346	02/17/83
		3,984,190	10/05/76	Barrett et al.	356	75	11/26/74

Form PTO-1449		
ATTY DOCKET NO.: 113-02	SERIAL NO.: 10/686,934	FILING DATE: October 15, 2003
APPLICANT: Bao et al.		GROUP: 2828

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No
	0 457 484 A2	11/21/91	EP	G02B 6/26		
	0 437 963 A2	07/24/91	EP	G01J 3/26		
	0 721 121 A1	07/10/96	EP	G02B 6/293	B02B 6/34	Abstract only
	0 903 615 A2	03/24/99	EP	G02F 1/21	G02F 1/1333	
	1 016 884 A2	07/05/00	EP	G02B 6/28	H04J 14/02	
	WO 98/17968	04/30/98	PCT	G01B 9/02		
	WO 98/27446	06/25/98	PCT	G02B		
	WO 99/34484	07/08/99	PCT	H01S		
	WO 00/28355	05/18/00	PCT	G02B 6/00		

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

		Arya, V. et al. "Temperature Compensation Scheme for Refractive Index Grating-Based Optical Fiber Devices," SPIE 2594:52-59
		Arya, V. et al. (1997), "Application of Thin-Film Optical Filters to the Temperature Compensation of Optical Fiber Grating-Based Devices," IEEE Trans Instrum. Measurement 46(5):1173-1177
		Ball, G.A. and Morey, W.W., (Dec 1994), "Compression-tuned single-frequency Bragg grating fiber laser," Optics Letters 19(23):1979-1981.
		Barnes et al., (Sept 1989), "High-quantum-efficiency Er ³⁺ fiber lasers pumped at 980 nm," Optics Letters 14(18):1002-1004
		Barnes et al. (1989), "Q-switching in fibre lasers," <i>Fiber Laser Sources and Amplifiers Proc. SPIE</i> 1171:302-308
		Bellemare et al. (Feb 1999), "Multifrequency Erbium-Doped Fiber Ring Lasers Anchored on the ITU Frequency Grid," <i>Optical Fiber Communications (OFC/IOOC'99)</i> Feb. 21 - 26, 1999, San Diego, CA 1:16-18
		Bird et al., (1991), "Narrow line semiconductor laser using fibre grating," Electron Lett. 27:1115-1116
		Boucher, R. et al. (1992), "Calibrated Fabry-Perot etalon as an absolute frequency reference for OFDM communications," IEEE Photonics Technol. Lett. 4:801-803

Form PTO-1449		
ATTY DOCKET NO.: 113-02	SERIAL NO.: 10/686,934	FILING DATE: October 15, 2003
APPLICANT: Bao et al.		GROUP: 2828

		Farries, M.C. et al. (1998), "Hybrid DWDM devices utilizing dielectric filters and fiber Bragg gratings," OFC '98 Optical Fiber Communication Conf. and Exhibit, Technical Digest Series, Vol. 2, Feb. 22-27, 1998, San Jose, CA, pp. 234-235
		Foote, P.D. (1994), "Fibre Bragg Grating Stain Sensors for Aerospace Smart Structures," Second European Conf. on Smart Structures and Materials, Glasgow, U.K., session 8, p. 290-293
		Friebele, E.J. et al. (1994), "Fiberoptic Sensors measure up for smart structures," Laser Focus World, (May), pp. 165-169
		Gamache et al. (Feb 1996), "An Optical Frequency Scale in Exact Multiples of 100 GHz for Standardization of Multifrequency Communications," <i>IEEE Photon. Technol. Lett.</i> 8(2):290-292
		Gehrsitz, S. et al. (Aug. 1997), "Tandem Triple-Pass Fabry-Perot Interferometer for Applications in the Near Infrared," <i>Appl. Opt.</i> (36):5355-5361.
		Giles et al., (Aug 1994), "Reflection-induced changes in the optical spectra of 980 nm QW lasers," <i>IEEE Photonics Technology Lett</i> 6(8):903-906
		Giles et al., (Aug 1994), "Simultaneous wavelength-stabilization of 980 nm pump lasers," <i>IEEE Photonics Technology Lett.</i> 6(8):907-909
		Glance, B.S. et al. (1988), "Densely spaced FDM coherent star network with optical signals confined to equally spaced frequencies," <i>IEEE J. Lightwave Technol.</i> LT-6:1770-1781
		Hammon, T.E. and Stokes, A.D. (1996), "Optical fibre Bragg grating temperature sensor measurements in an electrical power transformer using a temperature compensated optical fibre Bragg grating as a reference," Eleventh Int'l. Conf. on Optical Fiber Sensors - Advanced Sensing Photonics, Part Vol. 1, pp. 566-569 (Abstract Only)
		Henriksson, A. et al. (1996), "Temperature insensitivity of a fiber optic Bragg grating sensor," <i>Proc. SPIE</i> 2839:20-33
		Hsu, K. and Miller, C.M., (June 1994), "Single-mode tunable erbium:ytterbium fiber Fabry-Perot microlaser," <i>Optics Letters</i> 19(12):886-888
		Hsu, K. and Miller, C.M., (Feb 1995), "Continuous and discrete wavelength tuning in Er:Yb fiber Fabry-Perot lasers," <i>Optics Letters</i> 20(4):377-379
		Humblet, P.A. et al. (Aug. 1990), "Crosstalk Analysis and Filter Optimization of Single- and Double-Cavity Fabry-Perot Filters," <i>IEEE J. on Selected Areas in Communications</i> 8(6):1095-1107.
		Iwashima, T. et al. (1997), "Temperature compensation technique for fibre Bragg gratings using liquid crystalline polymer tubes," <i>Electron. Lett.</i> 33(5):417-419

Form PTO-1449		
ATTY DOCKET NO.: 113-02	SERIAL NO.: 10/686,934	FILING DATE: October 15, 2003
APPLICANT: Bao et al.		GROUP: 2828

		Ja, Y.H. (Sept. 1995) "Optical Vernier Filter with Fiber Grating Fabry-Perot Resonators," <i>Appl. Opt.</i> 34(27):6164-6167.
		Kaminow, I.P. et al. (1989), "A Tunable Vernier Fiber Fabry-Perot Filter for FDM Demultiplexing and Detection," <i>IEEE Photonics Technol. Lett.</i> 1(1):24-26.
		Kersey, A.D. (1993), "Fiber-optic Bragg grating strain sensor with drift-compensated high-resolution interferometric wavelength-shift detection," <i>Opt. Lett.</i> 18(1):72-74
		Kersey, A.D. et al. (1993), "Multiplexed fiber Bragg grating strain-sensor system with a fiber Fabry-Perot wavelength filter," <i>Opt. Lett.</i> 18:1370-1372
		Kersey, A.D. et al. (1995), "Development of Fiber Sensors for Structural Monitoring," <i>SPIE</i> 2456:262-268
		Kersey, A.D. (1996), "Interrogation and Multiplexing Techniques for Fiber Bragg Grating Strain-Sensors," Optical Sciences Division, Naval Research Laboratory (NRL) code 5674, distributed by NRL at SPIE Meeting, Fall 1996, (Denver, CO)
		Krüger et al. (Apr 1997), "Quasicontinuous Tunable Fiber-Ring Laser Applied as Local Oscillator in an Absolute Calibrated Spectrometer for WDM Systems," <i>J. Lightwave Technol.</i> 15:628-635
		Liu, Y. et al. (1997), "Temperature insensitive fiber grating," <i>Chinese J. of Lasers</i> 24(10):895-898 (Abstract Only)
		Lindsay, S.M. et al. (1981) "Construction and Alignment of a High Performance Multipass Vernier Tandem Fabry-Perot Interferometer," <i>Rev. Sci. Instrum.</i> 52(10):1478-1486.
		Lemieux, J-F. Et al. (May 1999), "Step-tunable (100GHz) Hybrid Laser Based on Vernier Effect Between Fabry-Perot Cavity and Sampled Fibre Bragg Grating," <i>Electron. Lett.</i> 35(11):904-906.
		Lemieux, J-F. et al. (July 1999), "100 Ghz Frequency Step-Tunable Hybrid Laser Based on a Vernier Effect Between Fabry-Perot Cavity and Sampled Fibre Bragg Grating." <i>OSA Trends in Optics and Photonics. Advanced Semiconductor Lasers and Their Applications</i> , Vol. 31, from the Topical Meeting Editor(s): Hollberg, L. and Lang, R.J., Optical Soc. America, Washington, DC, USA, pp. 186-188.
		Liou et al. (Dec 1998), "A 24-Channel Wavelength-Selectable Er-Fiber Ring Laser with Intracavity Waveguide-Grating-Router and Semiconductor Fabry-Perot Filter," <i>IEEE Photon. Technol. Lett.</i> 10(12):1787-1789

Form PTO-1449		
ATTY DOCKET NO.: 113-02	SERIAL NO.: 10/686,934	FILING DATE: October 15, 2003
APPLICANT: Bao et al.		GROUP: 2828

		Martin, J. et al. (1997), "Use of a sampled Bragg grating as an in-fiber optical resonator for the realization of a referencing optical frequency scale for WDM communications," Optical Fiber Communication Conference OFC-97, Technical Digest, paper ThI5, pp. 284-285
		Miller, C.M. et al. (1992), "Wavelength-Locked, Two-Stage Fibre Fabry-Perot Filter for Dense Wavelength Division Demultiplexing in Erbium-Doped Fibre Amplifier Spectrum," Electron. Lett. 28(3):216-217.
		Nyman, B., (Sept 1998), "Four Measurement Methods Characterize WDM Components," Optoelectronics World, pp. 527-532
		Olsson et al., (Feb 1985), "Chirp-free transmission over 82.5 km of single mode fibers at 2 Gbit/s with injection locked DFB semiconductor lasers," J. Lightwave Technology LT-3(1):63-66
		Oretga, B. et al. (July 1999), "Wavelength Division Multiplexing All-Fiber Hybrid Devices Based on Fabry-Perot's and Gratings," J. Lightwave Technol. 17(7):1242-1247.
		Park et al. (Nov 1991), "All Fiber, low threshold, widely tunable single-frequency, erbium-doped fiber ring laser with a tandem fiber Fabry-Perot filter," Appl. Phys. Lett. 59:2369-2371
		Park et al. (June 1993), "Frequency locking of an erbium-doped fiber ring laser to an external fiber Fabry-Perot resonator," Optics Lett. 18(11):879-881
		Poulsen, C.V. and Sejka, M. (June 1993), "Highly Optimized Tunable Er ³⁺ -Doped Single Longitudinal Mode Fiber Ring Laser, Experiment and Model," IEEE Photonics Technol. Lett. 5:646-648
		Rao, Y-J. and Jackson, D.A. (1996), "Universal Fiber-Optic Point Sensor System for Quasi-Static Absolute Measurements of Multiparameters Exploiting Low Coherence Interrogation," J. Lightwave Technol. 14(4):592-600
		Rao, Y-J. (1996), "Strain sensing of modern composite materials with a spatial-wavelength-division multiplexed fiber grating network," Opt. Lett. 21(9):683-685
		Sakai, T. et al. (1992), "Frequency stabilization of laser diodes using 1.51-1.55 μm absorption lines of ¹² C ₂ H ₂ and ¹³ C ₂ H ₂ ," IEEE J. Quant. Electron. 28:75-81
		Stone, J. and Marcuse, D. (1986), "Ultrahigh finesse fiber Fabry-Perot interferometers," IEEE J. Lightwave Technol. LT-4:382-385
		Stone J. et al. (1987) Elect. Lett. 23(15):781-783.

Form PTO-1449		
ATTY DOCKET NO.: 113-02	SERIAL NO.: 10/686,934	FILING DATE: October 15, 2003
APPLICANT: Bao et al.		GROUP: 2828

		Wyatt et al., (1982), "Megahertz linewidth from a 1.5 μ m semiconductor laser with HeNe laser injection," Electron. Lett. 18:292-293
		Yamashita et al., (Aug 1997), "Miniature erbium:ytterbium fiber Fabry-Perot multiwavelength lasers," IEEE J. Selected Topics in Quantum Electronics 3(4):1058-1064
		Yamashita, S. and Cowle, G.J., (Sept 1998), "Single-polarization operation of injection locked fiber DFB lasers," CTuF6 European Conference on Lasers and Electro-Optics '98, Glasgow, Scotland, September 13-18, 1998
		Yamashita, S. and Cowle, G.J., (Mar 1999), "Single-polarization operation of fiber distributed feedback (DFB) lasers by injection locking," J. Lightwave Technology 17(3):509-513
		Yoffe, G.W. et al. (1995) "Passive temperature-compensating package for optical fiber gratings" Applied Optics 34(30):6859-6861
		Yoffe, G.W. et al. "Temperature-compensated optical-fiber Bragg gratings" OFC '95 Technical Digest, W14-pp. 134-135
		Yoffe, G.W. et al. (1994), "Temperature-Compensating Mounts for Optical Fibre Biagg Gratings" ACOFT '94, pgs. 262-265
		Yun et al., (June 1998), "Interrogation of Fiber Grating Sensor Arrays with a Wavelength-swept Fiber Laser," Optics Letters 23(11):843-845
		Zervas, M.N. and Giles, I.P., (1989), "Optical-fibre surface-plasmon-wave polarisers with enhanced performance," Electron. Lett. 25:321-323
		Zhang et al. (Jan 1996), "Stable Single-Mode Compound-Ring Erbium-Doped Fiber Laser," IEEE J. Lightwave Technol. 14 (1):104-109
EXAMINER		DATE CONSIDERED
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>		

Form PTO-1449		
ATTY DOCKET NO.: 113-02	SERIAL NO.: 10/686,934	FILING DATE: October 15, 2003
APPLICANT: Bao et al.		GROUP: 2828

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	5,007,705	04/16/91	Morey et al.	350	96.29	
	5,042,898	08/27/91	Morey et al.	385	37	
	5,367,589	11/22/94	MacDonald et al.	385	37	
	5,469,520	11/21/95	Morey et al.	385	37	
	5,602,949	02/11/97	Epworth	385	37	
	5,694,503	12/02/97	Fleming et al.	385	37	
	5,841,920	11/24/98	Lemaire et al.	385	37	
	5,892,582	04/06/99	Bao et al.	356	345	
	5,978,539	11/02/99	Davies et al.	385	129	
	5,991,483	11/23/99	Engelberth	385	37	
	5,999,671	12/07/99	Jin et al.	385	37	
	6,044,189	03/28/00	Miller	385	37	
	6,115,122	09/05/00	Bao et al.	356	345	
	6,181,851	01/30/01	Pan et al.	385	37	
	6,229,827	05/08/01	Fernald et al.	372	112	
	6,240,220	05/29/01	Pan et al.	385	13	
	6,327,036	12/04/01	Bao et al.	356	480	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No
	WO 98/17968	04/30/98				
	WO 98/27446	06/25/98				
	WO 00/07047	02/10/00				
	WO 00/39617	07/06/00				

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

	Ball and Morey (Dec. 1994), "Compression-tuned single-frequency Bragg grating fiber laser," Opt. Lett. 19(23): 1979-1981.
	Hill and Meltz (Aug. 1997), "Fiber Bragg grating technology fundamentals and overview," J. Lightwave Technology 15(8): 1263-1276.
	Iocco et al. (Sept. 1998), "Tension and compression tuned Bragg grating filter," Proc. ECOC '98, vol.1: 229-230.
	Iocco et al. (July 1999), "Bragg grating fast tunable filter for wavelength division multiplexing," J. Lightwave Technology 17(7): 1217-1221.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449

ATTY DOCKET NO.: 113-02

SERIAL NO.: 10/686,934

FILING DATE: October 15, 2003

APPLICANT: Bao et al.

GROUP: 2828

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	4,806,012	02/21/89	Meltz et al.	356	32	
	4,848,999	07/18/89	Taylor	65	4.3	
	4,892,388	01/09/90	Taylor	350	320	
	4,923,273	05/08/90	Taylor	350	96.21	
	4,996,419	02/26/91	Morey	250	227.18	
	5,062,684	11/05/91	Clayton et al.	385	27	
	5,073,004	12/17/91	Clayton et al.	385	27	
	5,212,745	05/18/93	Miller	385	25	
	5,212,746	05/18/93	Miller et al.	385	25	
	5,227,857	07/13/93	Kersey	356	345	
	5,289,552	02/22/94	Miller et al.	385	73	
	5,361,130	11/01/94	Kersey et al.	356	345	
	5,375,181	12/20/94	Miller et al.	385	27	
	5,380,995	01/10/95	Udd et al.	250	227.18	
	5,397,891	03/14/95	Udd et al.	250	227.18	
	5,410,404	04/25/95	Kersey et al.	356	345	
	5,401,956	03/28/95	Dunphy et al.	250	227.18	
	5,422,970	06/06/95	Miller et al.	385	72	
	5,426,297	06/20/95	Dunphy et al.	250	227.23	
	5,509,093	04/16/96	Miller et al.	385	27	
	5,513,913	05/07/96	Ball et al.	374	120	
	5,563,973	10/08/96	Miller et al.	385	81	
	5,591,965	01/07/97	Udd	250	227.18	

Form PTO-1449		
ATTY DOCKET NO.: 113-02	SERIAL NO.: 10/686,934	FILING DATE: October 15, 2003
APPLICANT: Bao et al.		GROUP: 2828

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes/No

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

		Boucher, R. et al. (1992), "Calibrated Fabry-Perot Etalon as an Absolute Frequency Reference for OFDM Communications," IEEE Photon. Tech. Lett. 4(7):801-803
		Davis, M.A. and Kersey, A.D. (1995), "Matched-filter interrogation technique for fibre Bragg grating arrays," Electron. Lett. 31(10):822-823
		Davis, M.A. and Kersey, A.D. (1994), "All-fibre Bragg grating strain-sensor demodulation technique using a wavelength division coupler," Electron. Lett. 30(1):75-77
		Dunphy, J. et al. (1993), "Instrumentation development in support of fiber grating sensor arrays," Proc. of the SPIE V. 2071, pp. 2-11
		Foote, P.D. (1994), "Fibre Bragg Grating Strain Sensors for Aerospace Smart Structures," Second European Conf. on Smart Structures and Materials, Glasgow, Session 8, pp. 290-293
		Friebele, E.J. and Kersey, A.D. (1994), "Fiberoptic sensors measure up for smart structures," Laser Focus World, pp. 165-169
		Garnache, C. et al. (1996), "An Optical Frequency Scale in Exact Multiples of 100 GHz for Standardization of Multifrequency Communications," IEEE Photon. Tech. Lett. 8(2):290-292
		Glance, B.S. et al. (1988), "Densely Spaced FDM Coherent Star Network With Optical Signals Confined to Equally Spaced Frequencies," J. Lightwave Technol. 6(11):1770-1781
		Jackson, D.A. et al. (1993), "Simple multiplexing scheme for a fiber-optic grating sensor network" Opt. Lett. 18(14):1192-1194
		Jackson, D.A. et al. (1993), "Pseudoheterodyne Detection Scheme for Optical Interferometers" Electron. Lett. 18(25):1081-1083
		Kersey, A.D. et al., "Development of Fiber Sensors for Structural Monitoring," SPIE 2456:262-268
		Kersey, A.D. et al. (1993), "Multiplexed fiber Bragg grating strain-sensor system with a fiber Fabry-Perot wavelength filter," Opt. Lett. 18(16):1370-1372

Form PTO-1449		
ATTY DOCKET NO.: 113-02	SERIAL NO.: 10/686,934	FILING DATE: October 15, 2003
APPLICANT: Bao et al.		GROUP: 2828

		Kersey, A.D., "Interrogation and Multiplexing Techniques for Fiber Bragg Grating Strain-Sensors," Optical Sciences Division Naval Research Laboratory (NRL) code 5674, distributed by NRL at SPIE Meeting Fall 1996, Denver, CO
		Kersey, A.D. et al. (1992), "High-Resolution Fibre-Grating Based Strain Sensor With Interferometric Wavelength-Shift Detection" Electron. Lett. 28(3):236-238
		Kersey, A.D. et al. (1993), "Fiber-optic Bragg grating strain sensor with drift-compensated high-resolution interferometric wavelength-shift detection" Opt. Lett. 18(1):72-74
		Martin, J. et al. (1997), "Use of a sampled Bragg grating as an in-fiber optical resonator for the realization of a referencing optical frequency scale for WDM communications," OFC '97 Technical Digest, pp. 284-285
		Melle, S.M. et al. (1993), "A Bragg Grating-Tuned Fiber Laser Strain Sensor System" IEEE Photon. Technol. Lett. 5(2):263-266
		Miller, C.M., "Characteristics and Applications of High Performance, Tunable, Fiber Fabry-Perot Filters," 41st ECTC Electronics Components & Technology Conf., Atlanta, GA, May 13-15, 1991, 4 pp.
		Rao, Y.-j. and Jackson, D.A. (1996), "Universal Fiber-Optic Point Sensor System for Quasi-Static Absolute Measurements of Multiparameters Exploiting Low Coherence Interrogation," J. Lightwave Technol. 14(4):592-600
		Rao, Y.-j. et al. (1996), "Strain sensing of modern composite materials with a spatial/wavelength-division multiplexed fiber grating network," Opt. Lett. 21(9):683-685
		Rao, Y.-j. et al. (1995), "Spatially-multiplexed fibre-optic Bragg grating strain and temperature sensor system based on interferometric wavelength-shift detection" Electron. Lett. 31(12):1009-1010
		Sakai, Y. et al. (1992), "Frequency Stabilization of Laser Diodes Using 1.51-1.55 μm Absorption Lines of $^{13}\text{C}_2\text{H}_2$ and $^{13}\text{C}_2\text{H}_4$," IEEE J. Quantum Electron. 28(1):75-81
		Weis, R.S. et al. (1994), "A Four-Element Fiber Grating Sensor Array with Phase-Sensitive Detection," IEEE Photon. Technol. Lett. 6(12):1469-1472
		Xu, M.-G. et al. (1993), "Novel frequency-agile interrogating system for fibre Bragg grating sensor," Proc. of the SPIE V. 2071, pp. 59-65

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.